

# ZOO & WILDLIFE BIOLOGY (B.S.) - RESIDENT

**Important:** This degree plan is effective for those starting this degree program in fall 2025 through summer 2026. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations, or cognates.

## General Education/Foundational Skills Requirements

Code	Title	Hours
<b>Communication &amp; Information Literacy</b> <sup>1</sup>		
ENGL 101	Composition and Rhetoric	3
	Communications Elective	3
	Information Literacy Elective	3
	Information Literacy Elective	3
<b>Technological Solutions &amp; Quantitative Reasoning</b> <sup>1</sup>		
UNIV 101	Foundational Skills	1
	Math Elective MATH 114 or higher	3
	Technology Competency <sup>2</sup>	0-3
<b>Critical Thinking</b> <sup>1</sup>		
RLGN 105	Introduction to Biblical Worldview <sup>3</sup>	2
	Critical Thinking Elective	3
<b>Civic &amp; Global Engagement</b> <sup>1</sup>		
EVAN 101	Evangelism and the Christian Life <sup>3</sup>	2
	Cultural Studies Elective	3
<b>Social &amp; Scientific Inquiry</b> <sup>1</sup>		
	Natural Science Elective	3
	Social Science Elective <sup>4</sup>	3
<b>Christianity &amp; Contexts</b> <sup>1</sup>		
BIBL 105	Old Testament Survey	2
BIBL 110	New Testament Survey	2
THEO 201	Theology Survey I <sup>3</sup>	2
THEO 202	Theology Survey II <sup>3</sup>	2
<b>Total Hours</b>		<b>40-43</b>

<sup>1</sup> Refer to the list of approved general education electives before enrolling in foundational skill requirements

<sup>2</sup> All students must pass the Computer Assessment OR complete applicable INFT course

<sup>3</sup> Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 and EVAN 101 waived; Students transferring in 60 or more UG credit hours will also have the requirements of THEO 201 and THEO 202 waived

<sup>4</sup> PSYC 101 is strongly recommended

## Major Requirements

Code	Title	Hours
<b>Major Foundational Courses</b>		
BIOL 224	General Biology I <sup>1</sup>	4
	Chemistry Elective <sup>1,2</sup>	4
	Chemistry Elective <sup>1,3</sup>	4

Code	Title	Hours
MATH 126	Elementary Calculus for Business and Science <sup>1</sup>	3-4
	or MATH 131 Calculus and Analytic Geometry I	
MATH 201	Introduction to Probability and Statistics <sup>1</sup>	3
	or MATH 211 Introduction to Statistical Analysis	
	Science Elective <sup>4,5</sup>	3-4
	Science Elective <sup>4,5</sup>	3-4
<b>Total Hours</b>		<b>24-27</b>

<sup>1</sup> Course may fulfill select general education requirements.

<sup>2</sup> Choose CHEM 121 General Chemistry I (4 c.h.) **OR** CHEM 131 Advanced General Chemistry I (3 c.h.) **and** CHEM 135 Advanced General Chemistry Lab (1 c.h.)

<sup>3</sup> Choose CHEM 122 General Chemistry II (4 c.h.) **OR** CHEM 132 Advanced General Chemistry II (3 c.h.) **and** CHEM 136 Advanced General Chemistry II Lab (1 c.h.)

<sup>4</sup> Choose from BIOL 125 Animal Diversity and Conservation (3 c.h.), ENVR 220 Physical Geology (3 c.h.), ENVR 221 Physical Geology Laboratory (1 c.h.), PHSC 121 Introduction to Astronomy (3 c.h.), PHSC 122 Elements of Astronomy Lab (1 c.h.), PHSC 210 Elements of Earth Science (3 c.h.), PHSC 211 Elements of Earth Science Lab (1 c.h.), PHSC 311 Oceanography (3 c.h.), PHSC 312 Meteorology (3 c.h.), PHSC 313 Mineralogy and Petrology (4 c.h.), PHYS 201 General Physics I (4 c.h.), PHYS 202 General Physics II (4 c.h.), PHYS 231 University Physics I (4 c.h.), OR PHYS 232 University Physics II (4 c.h.).

<sup>5</sup> PHYS 201 General Physics I (4 c.h.) and PHYS 202 General Physics II (4 c.h.), or PHYS 231 University Physics I (4 c.h.) and PHYS 232 University Physics II (4 c.h.), are recommended for graduate school

Code	Title	Hours
<b>Major Core</b>		
BIOL 225	General Biology II	4
BIOL 303	Microbiology	4
	or BIOL 305 Parasitology	
BIOL 310	Ecology	4
BIOL 317	Botany	4
BIOL 400	Biology Seminar	1
BIOL 408	Animal Behavior	4
BIOL 416	Comparative Animal Physiology	4
BIOL 418	Vertebrate Natural History	4
BIOL 495	Special Problems in Biology	3
	or BIOL 499 Internship	
CRST 290	History of Life	3
	or CRST 390 Origins	
	Science or Psychology Elective <sup>1</sup>	3-4
	Science or Psychology Elective <sup>1</sup>	3-4
	Science or Psychology Elective <sup>1</sup>	3-4
	Science or Psychology Elective <sup>1</sup>	3-4
	Science or Psychology Elective <sup>1</sup>	3-4
	Science or Psychology Elective <sup>1</sup>	3-4
	Science Elective <sup>2</sup>	4
<b>Total Hours</b>		<b>54-59</b>

<sup>1</sup> Choose any 300-400 level BIOL, CHEM, or ENVR course not already required in the major, **OR** choose PSYC 210 Developmental Psychology (3 c.h.), PSYC 255 Introduction to Research (3 c.h.), and three of the following courses: PSYC 355 Statistics in Psychology (3 c.h.),

PSYC 365 Psychological Foundations of Learning (3 c.h.), PSYC 380 Physiological Psychology (3 c.h.), or PSYC 430 Abnormal Psychology (3 c.h.) (Completion of the listed PSYC courses may result in the completion of a Psychology Minor).

<sup>2</sup> Choose any 300-400 level BIOL, CHEM, or ENVR course not already required in the Major.

Code	Title	Hours
<b>Free Electives</b>		
Choose 0-5 credit hours of Free Electives		0-5
<b>Total Hours</b>		<b>0-5</b>

All applicable prerequisites must be met

## Graduation Requirements

- **120** Total hours
- **2.0** Overall grade point average
- **30** Hours must be upper-level courses (300-400 level)
- **Grade of 'C'** Minimum required for all upper-level courses in the major
- **25%** Of major taken through Liberty University
- **30** Hours must be completed through Liberty University
- **Grad App** Submission of Degree Completion Application must be completed within the last semester of a student's anticipated graduation date
- **CSER** All requirements must be satisfied before a degree will be awarded

## Course Sequence

### Freshman Year

First Semester		Hours
Math Elective	MATH 201 or MATH 211 <sup>1</sup>	3
Natural Science Elective	BIOL 224 <sup>1</sup>	4
Technology Competency	<sup>2</sup>	0-3
ENGL 101	Composition and Rhetoric	3
UNIV 101	Foundational Skills	1
Chemistry Elective	<sup>3</sup>	4
CSER		
<b>Hours</b>		<b>15-18</b>

### Second Semester

Information Literacy Elective	<sup>1</sup>	3
BIOL 225	General Biology II	4
MATH 126	Elementary Calculus for Business and Science	3-4
	or MATH 131	
	or Calculus and Analytic Geometry I	
Chemistry Elective	<sup>4</sup>	4
CSER		
<b>Hours</b>		<b>14-15</b>

### Sophomore Year

First Semester		Hours
Social Science Elective	<sup>1,5</sup>	3
BIBL 105	Old Testament Survey	2
BIOL 303	Microbiology	4
	or BIOL 305	
	or Parasitology	
RLGN 105	Introduction to Biblical Worldview	2

Science Elective	<sup>6,7</sup>	3-4
CSER		
<b>Hours</b>		<b>14-15</b>

### Second Semester

BIBL 110	New Testament Survey	2
BIOL 408	Animal Behavior	4
Science Elective	<sup>6,7</sup>	3-4
Science or Psychology Elective	<sup>8,9</sup>	3-4
Elective		3
CSER		
<b>Hours</b>		<b>15-17</b>

### Junior Year

#### First Semester

Communications Elective	<sup>1</sup>	3
Critical Thinking Elective	<sup>1</sup>	3
BIOL 416	Comparative Animal Physiology	4
BIOL 418	Vertebrate Natural History	4
Science or Psychology Elective	<sup>8,9</sup>	3-4
CSER		
<b>Hours</b>		<b>17-18</b>

#### Second Semester

Information Literacy Elective	<sup>1</sup>	3
BIOL 317	Botany	4
CRST 290	History of Life	3
	or CRST 390	
	or Origins	
Science or Psychology Elective	<sup>8,9</sup>	3-4
Elective		3
CSER		
<b>Hours</b>		<b>16-17</b>

### Senior Year

#### First Semester

Cultural Studies Elective	<sup>1</sup>	3
BIOL 310	Ecology	4
EVAN 101	Evangelism and the Christian Life	2
THEO 201	Theology Survey I	2
Science or Psychology Elective	<sup>8,9</sup>	3-4
CSER		
<b>Hours</b>		<b>14-15</b>

#### Second Semester

BIOL 400	Biology Seminar	1
BIOL 495	Special Problems in Biology <sup>10</sup>	3
	or BIOL 499	
	or Internship	
THEO 202	Theology Survey II	2
Science Elective	<sup>11</sup>	4
Science or Psychology Elective	<sup>8,9</sup>	3-4
Elective		2
CSER		
<b>Hours</b>		<b>15-16</b>
<b>Total Hours</b>		<b>120-131</b>

<sup>1</sup> Refer to the list of approved general education electives before enrolling in foundational skills requirements.

- <sup>2</sup> All students must pass the Computer Assessment OR complete applicable INFT course
- <sup>3</sup> Choose CHEM 121 OR CHEM 131 and CHEM 135.
- <sup>4</sup> Choose CHEM 122 OR CHEM 132 and CHEM 136.
- <sup>5</sup> PSYC 101 is strongly recommended.
- <sup>6</sup> Choose BIOL 125, ENVR 220, ENVR 221, PHSC 121, PHSC 122, PHSC 210, PHSC 211, PHSC 311, PHSC 312, PHSC 313, PHYS 201, PHYS 202, PHYS 231, or PHYS 232.
- <sup>7</sup> PHYS 201 and PHYS 202, or PHYS 231 University Physics I and PHYS 232, are recommended for graduate school.
- <sup>8</sup> Choose any 300-400 level BIOL, CHEM, or ENVR course not already required in the major, OR choose PSYC 210, PSYC 255, and three of the following courses: PSYC 355, PSYC 365, PSYC 380, or PSYC 430.
- <sup>9</sup> Completion of the listed PSYC courses<sup>8</sup> may result in completion of a Psychology Minor.
- <sup>10</sup> The requirement of BIOL 495 or BIOL 499 may be satisfied in three different ways:
- a) taking 1 credit hour per semester of BIOL 495 over a period of 3 semesters
  - b) taking 1-3 credit hours per semester of BIOL 499 until the 3 credit hour requirement total has been completed
  - c) taking a combination of (a) and (b) until the 3 credit hour requirement has been completed
- Students should contact their Academic Advisor regarding any questions concerning this requirement.
- <sup>11</sup> Choose any 300-400 level BIOL, CHEM, or ENVR course not already required in the major.